

**CARGO HANDLING, HEAVY, AKA-113 TRAINER, DEVICE 11H63****TRAINING CATEGORY:**

MAINTENANCE TRAINING (Misc)

ORIGINATING AGENCY:

CHNAVRES

SECURITY CLASSIFICATION:

Device 11H63 is unclassified.

INTENDED USE:

For use in a classroom to train naval personnel in the operation and handling procedures for the 70 Ton boom and other cargo gear of a ship of the LKA-113 class.

To familiarize shipboard and shore cargo handling personnel with the operational principles of the 70 Ton heavy cargo boom and winches and to provide experience in control of the various winch motors.

FUNCTIONAL DESCRIPTION:

Device 11H63 is a 1/8 scale operating model of the cargo gear and boat handling system of the LKA-113 class ship. It includes operating models of the 70 Ton boom, with hoisting and topping winches, winch control stations, and two (2) 15 Ton hand-operated booms.

The device consists of the following components:

1. An aluminum base structure covered with 3/4" plywood, representing the main deck.
2. 70 Ton aluminum boom and rigging.
3. Two (2) 15 Ton aluminum booms and rigging.
4. Two (2) hoisting and two (2) topping winches (24 vdc) for the 70 Ton boom.
5. Four (4) tag winches (24 vdc).
6. Full size winch controls.
7. Scale model LCM8 and hoisting sling.

DIRECTORY OF NAVAL TRAINING DEVICES

The 70 Ton boom is fully operable by two (2) hoisting winches, two (2) topping winches. Four (4) tag winches are installed. All winches are driven by controllable 24 vdc motors from a control station.

The two (2) 15 Ton booms are manually operable.

The instructor is able to demonstrate, and the trainee to practice, the use of the 70 Ton boom for loading and unloading and moving the 70 Ton boom through the crossstreets from forward to aft or vice versa. The control stations are arranged on top of two (2) tables. One (1) table supports the controls for the 70 Ton boom, the other table supports the control for the tag winches.

The 15 Ton booms may be operated by hand to demonstrate conventional loading and refueling techniques.

PHYSICAL INFORMATION:

The assembled trainer, exclusive of the two (2) control tables, is 15' Long x 20' Wide x 12' High and weighs 1,580 lbs. Each of the two (2) control tables is 24" Wide x 36" High. Table No. 1 with power supply weighs 175 lbs. Table No. 2 weighs 45 lbs.

The components are designed for permanent erection at site. They will pass through a 32" Wide x 82" High opening.

INSTALLATION AREA:

16' x 18'

POWER REQUIREMENTS:

110 Volts, 32 amps, 60 Hz. single phase with ground wire.

PUBLICATIONS FURNISHED:

Instructor's Guide for Heavy Cargo Handling Trainer, Device 11H63, NAVTRADEV P-3598 (U).

PERSONNEL:

Instructor: One (1)

Trainee Observers: Twenty (20)

Maintenance Men: Instructor/Operator maintained.

RELATED TRAINING DEVICE:

The device may be used in conjunction with the Device X11H44, Cargo Handling Trainer, to simulate two-ship cargo transfer and refueling.

CONTRACT IDENTIFICATION:

Manufactured by Navigate, Inc., Clearwater, FL under NAVTRASYS-SCEN Contract No. N61339-69-C-0272.

LOCAL STOCK NUMBER:

6910-LL-C00-0835